

FIG. 1

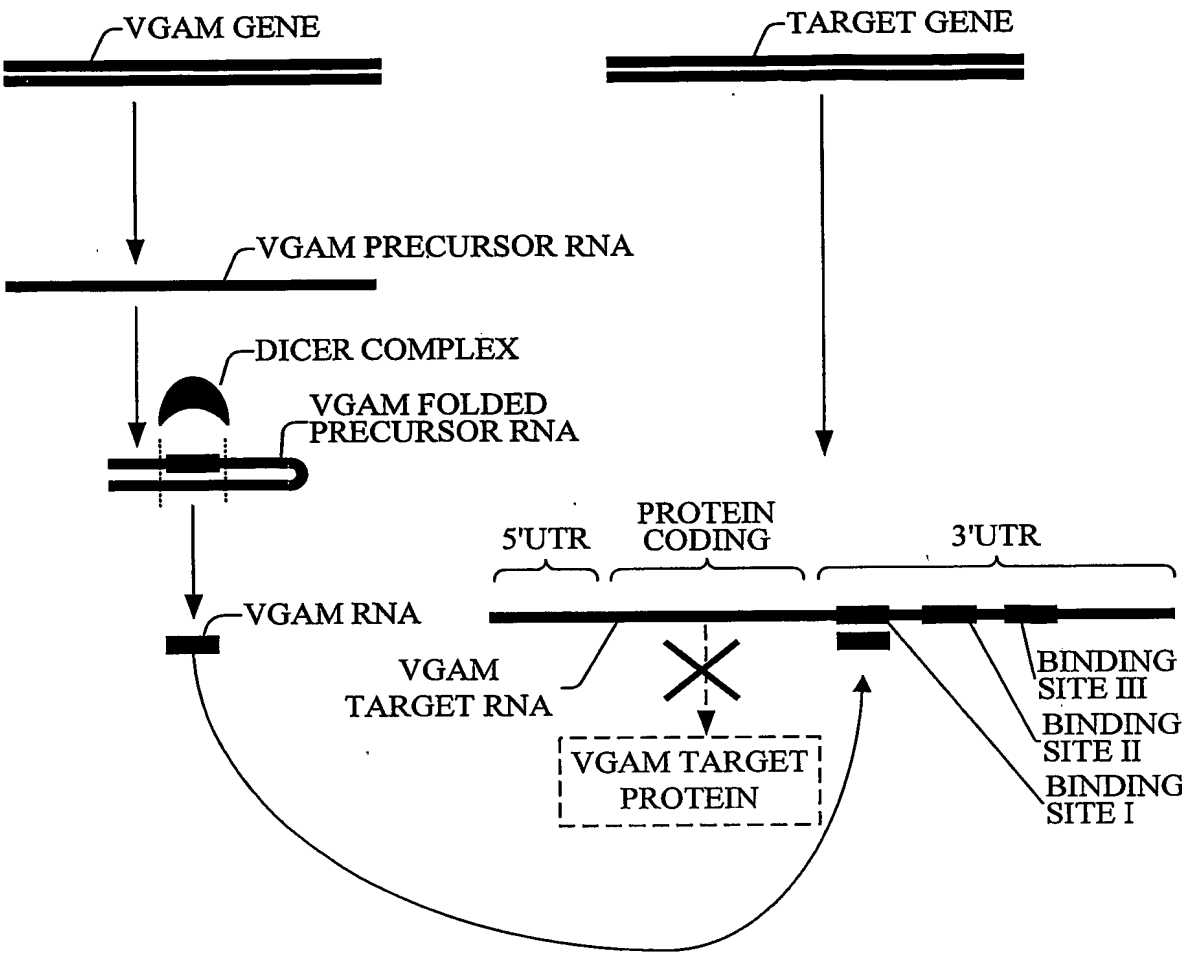


FIG. 2

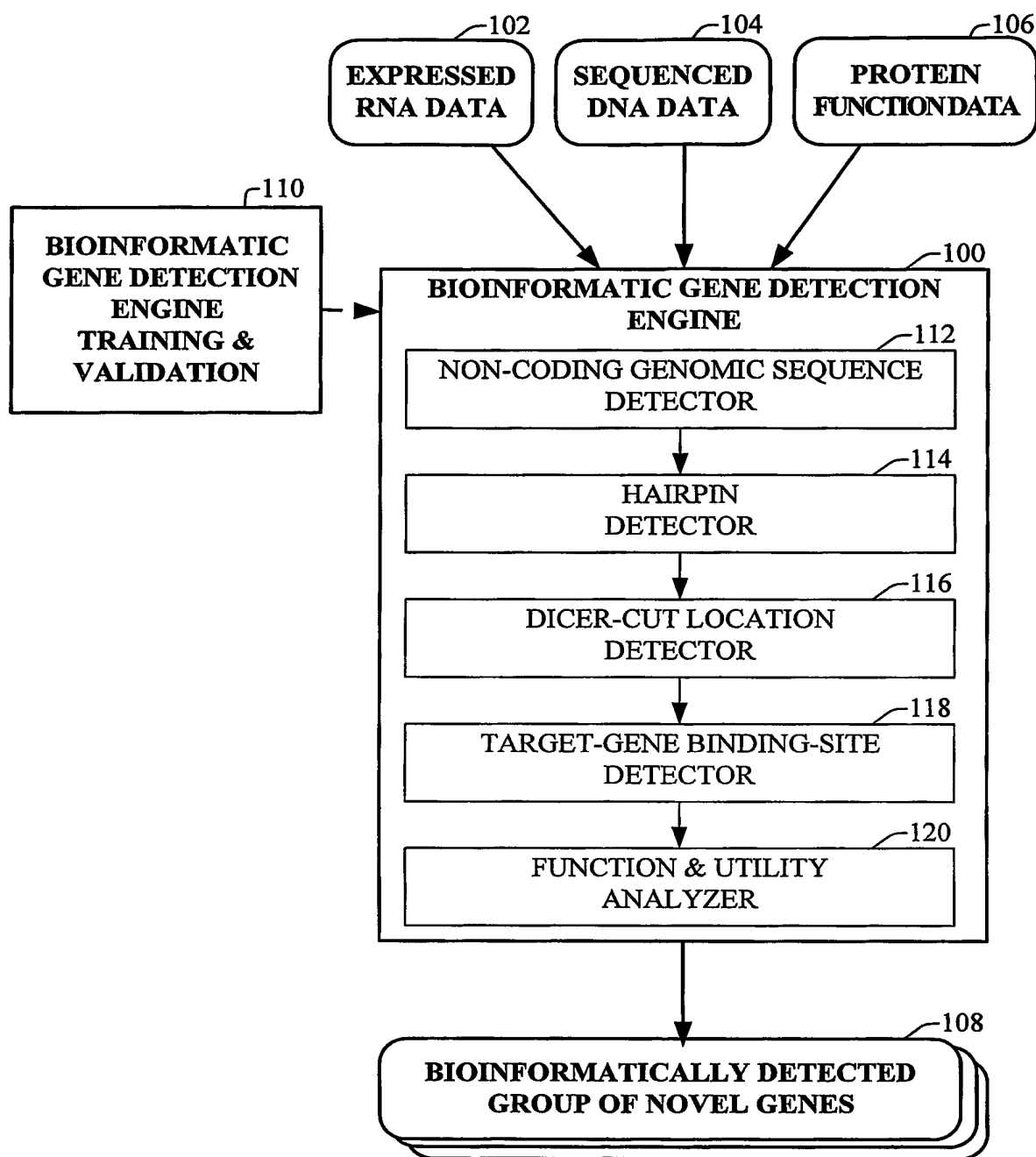


FIG. 3

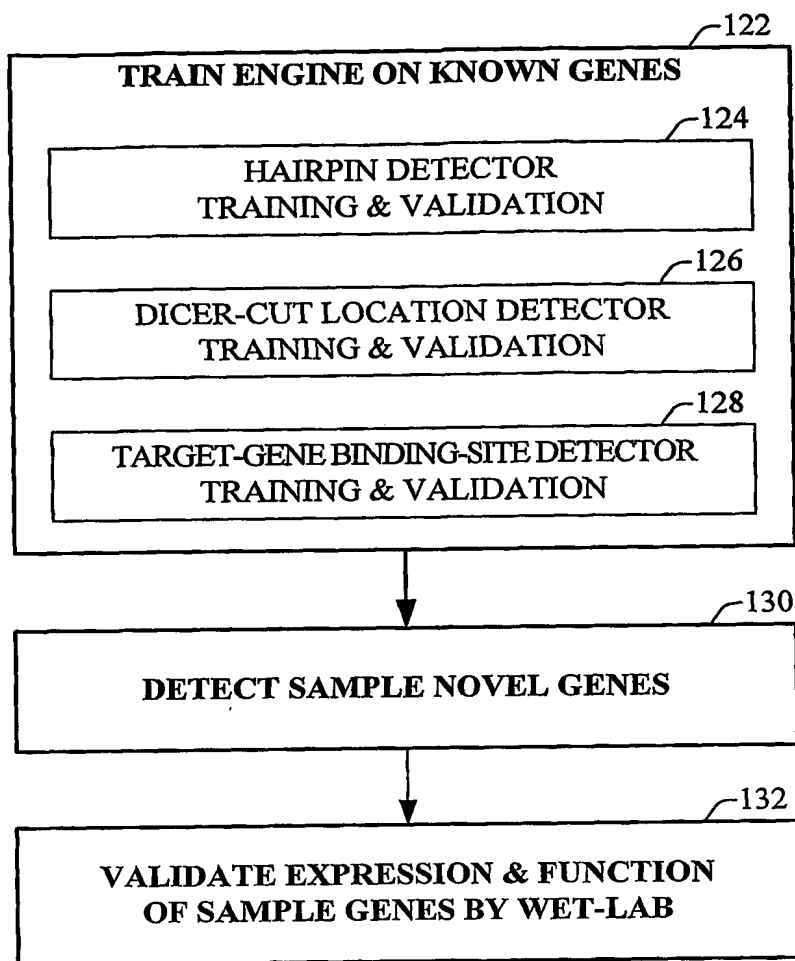


FIG. 4A

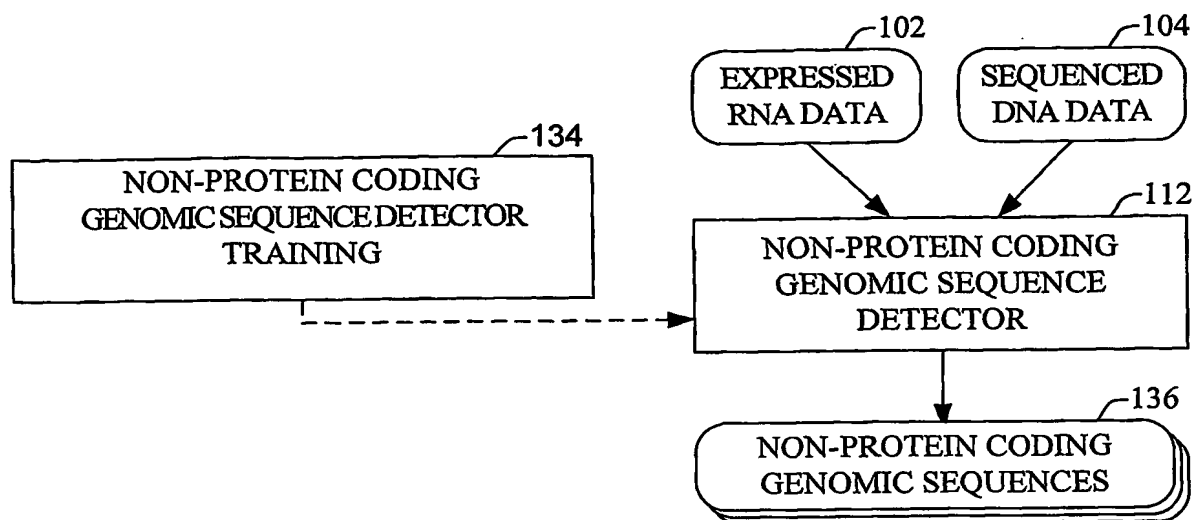


FIG. 4B

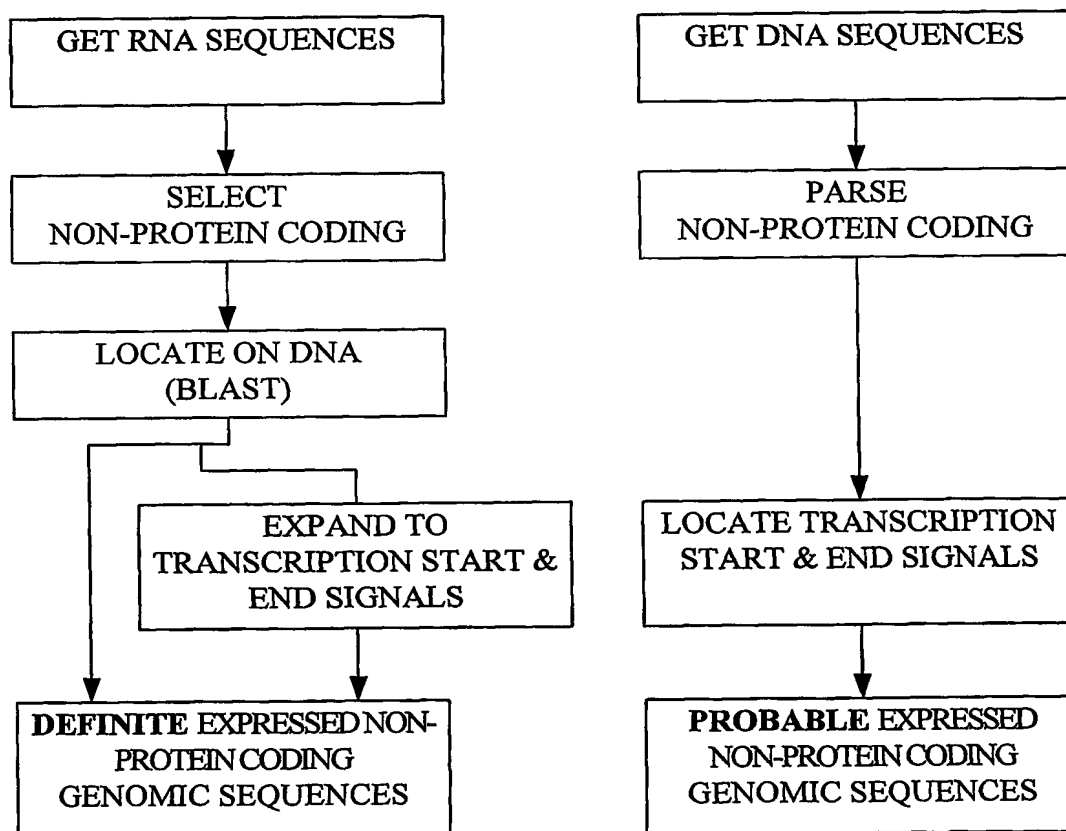


FIG. 5A

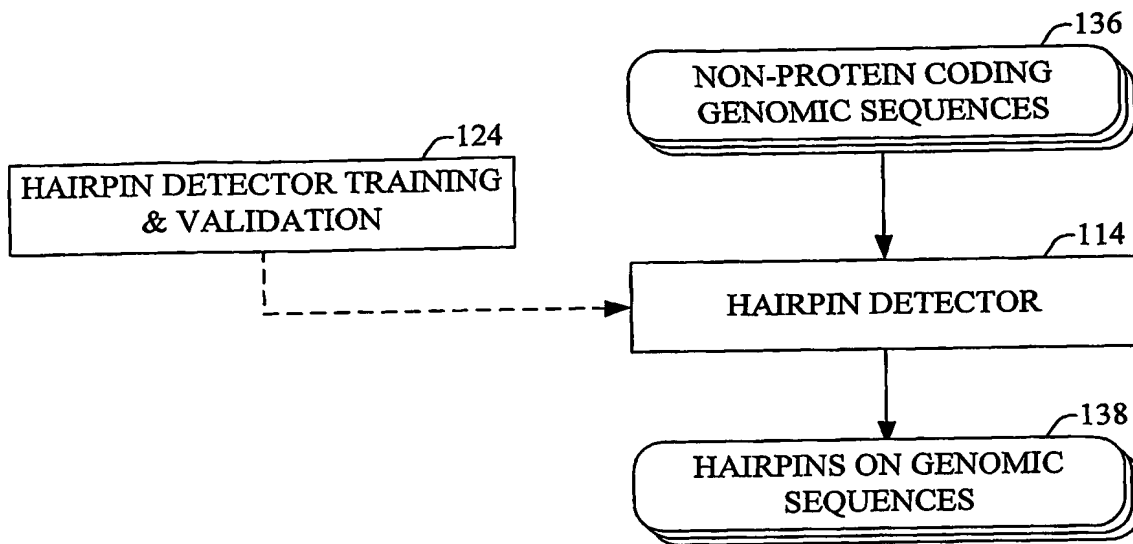


FIG. 5B

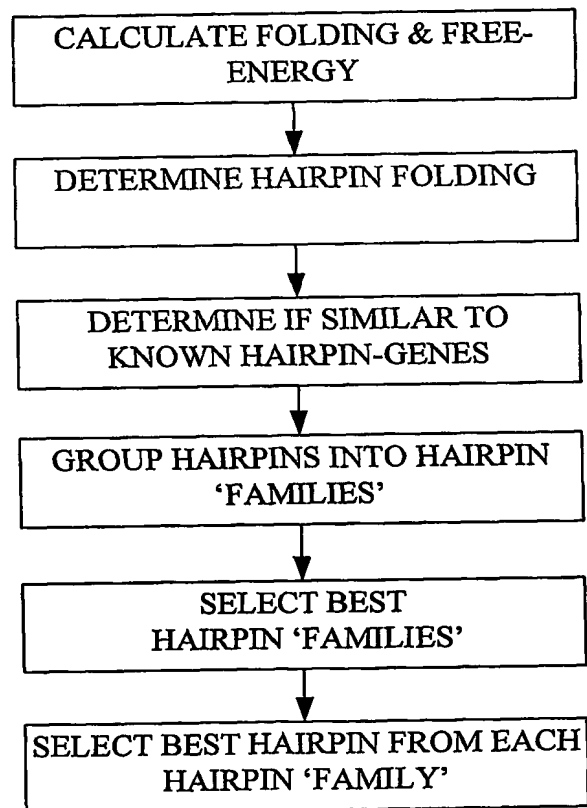


FIG. 6A

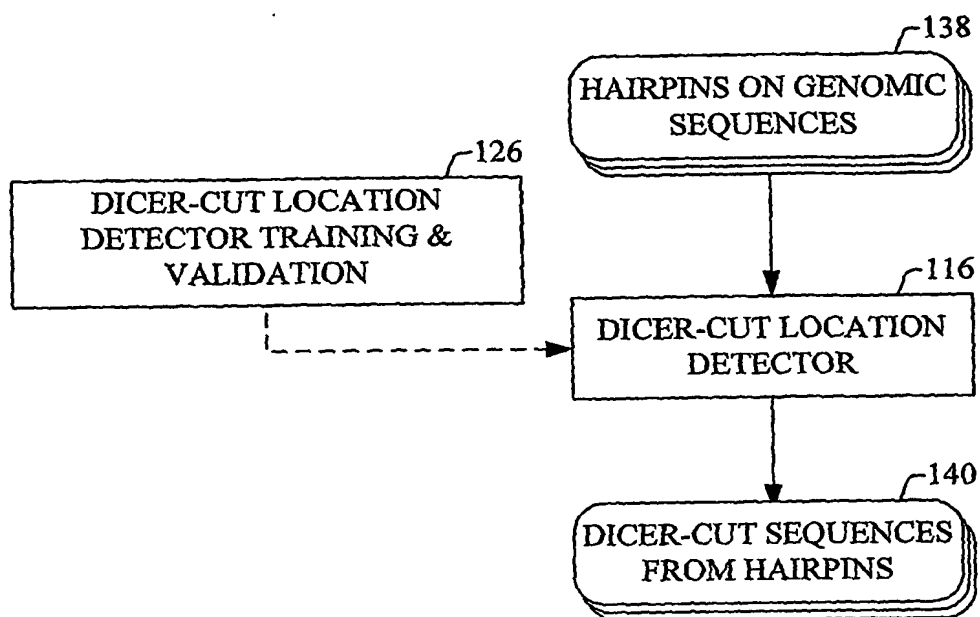


FIG. 6B

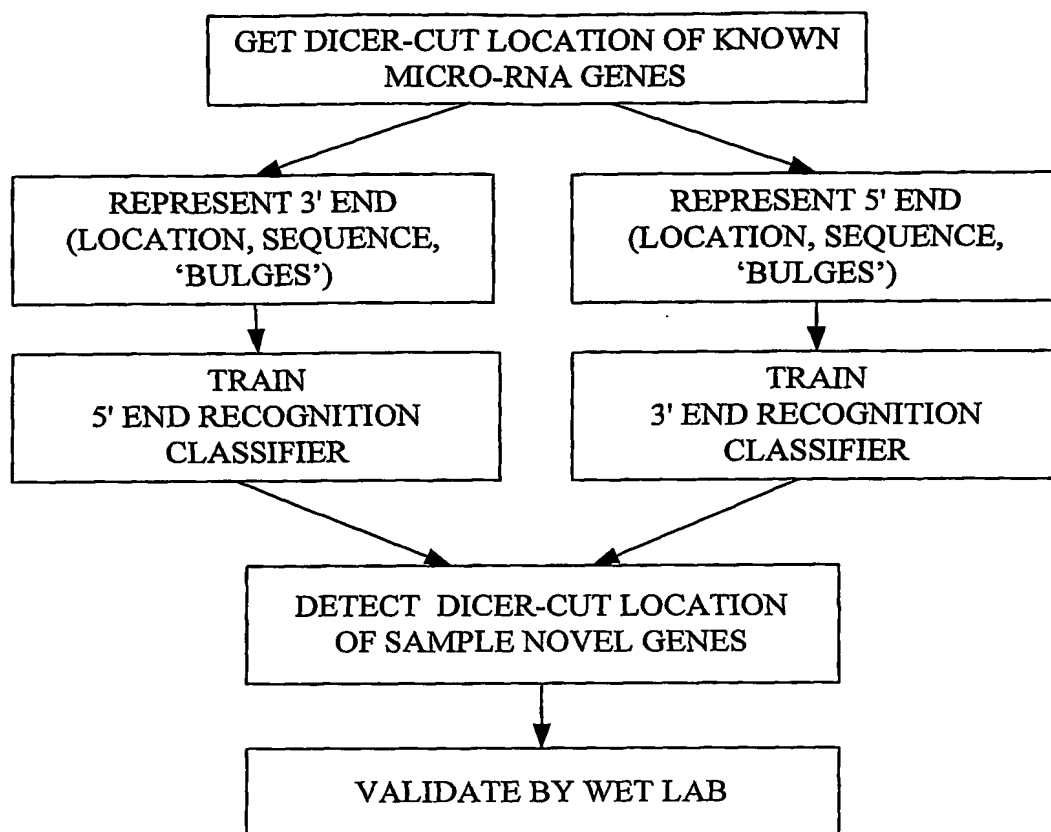


FIG. 6C

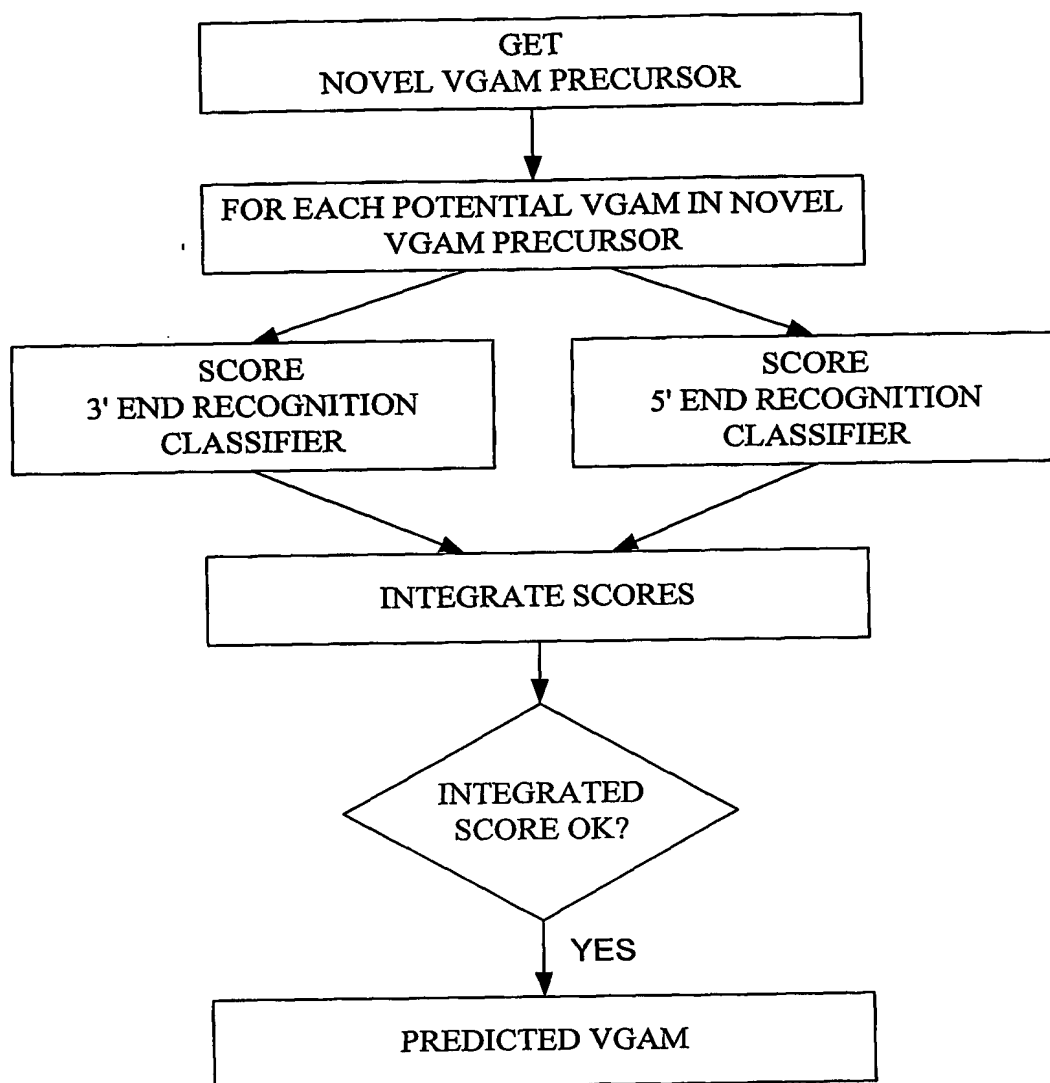


FIG. 7A

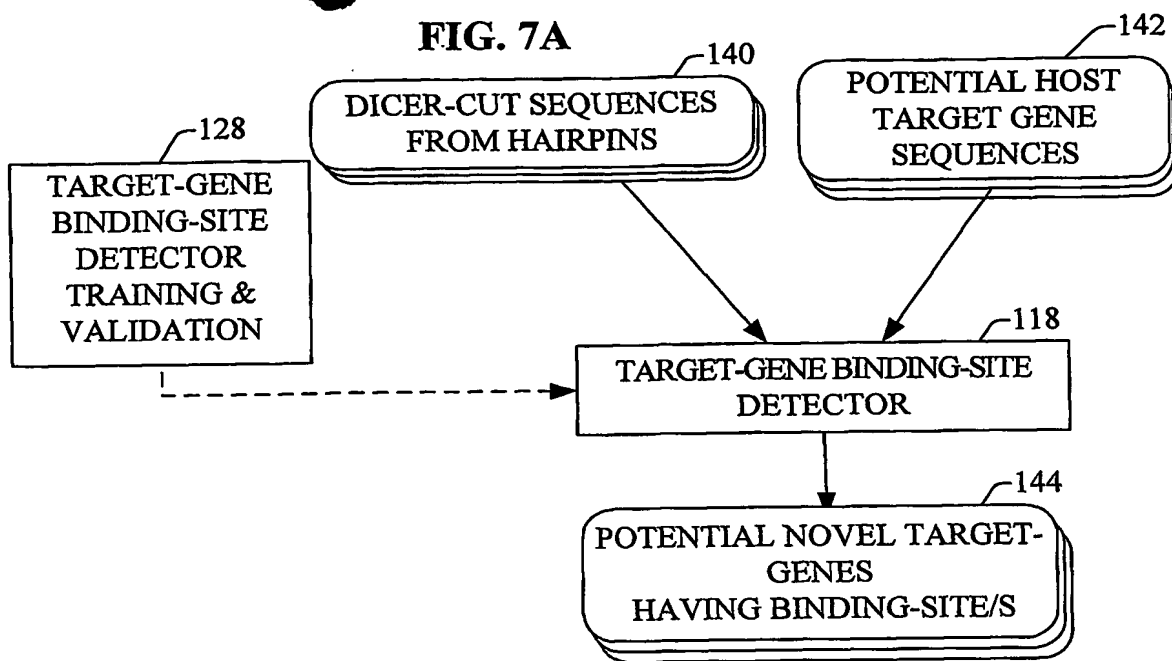


FIG. 7B

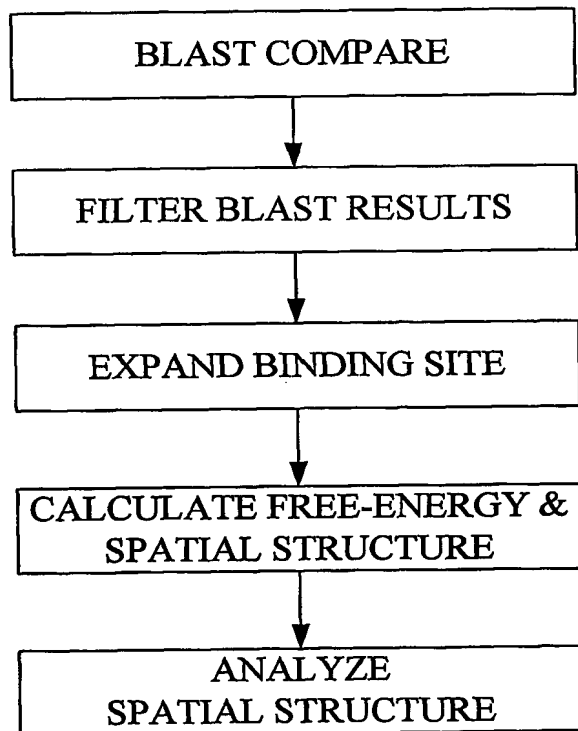


FIG. 8

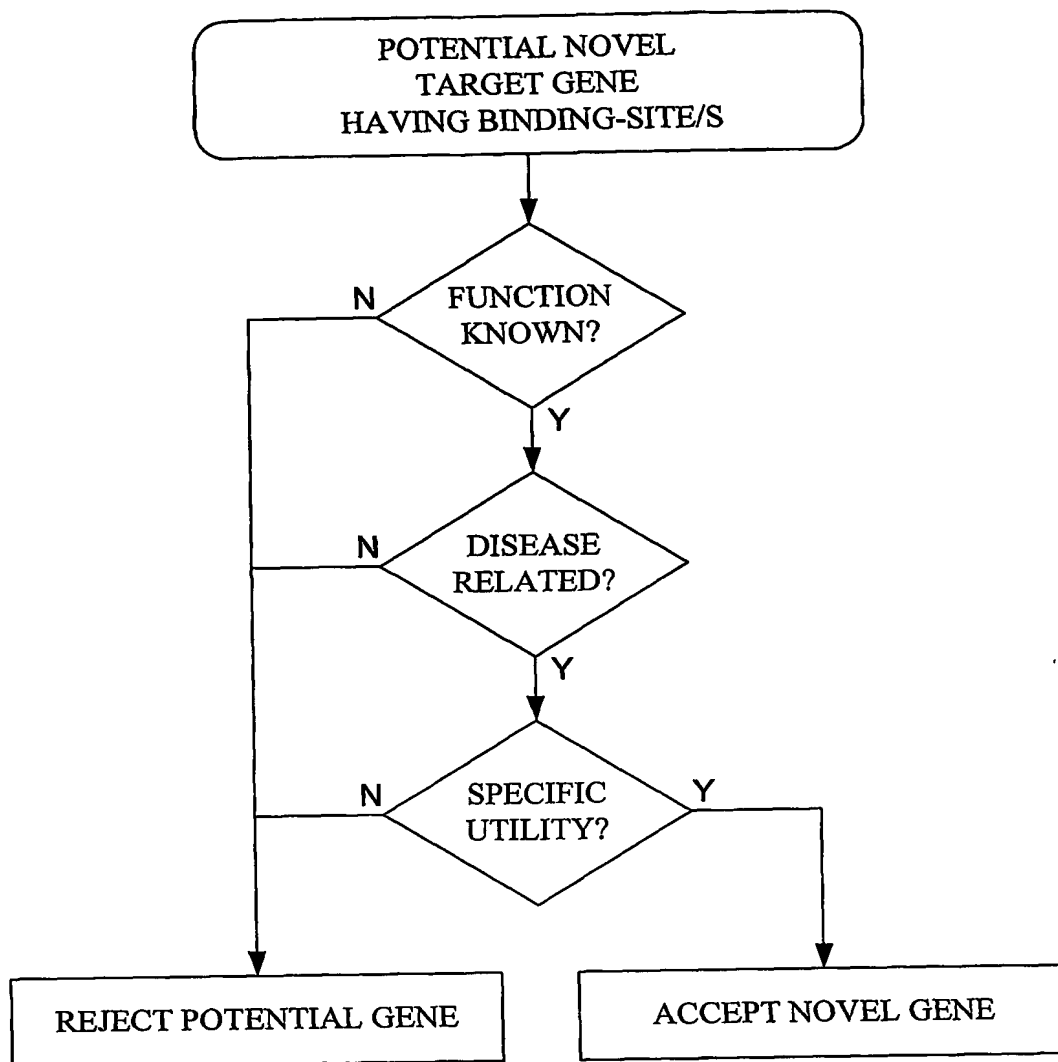


FIG. 9

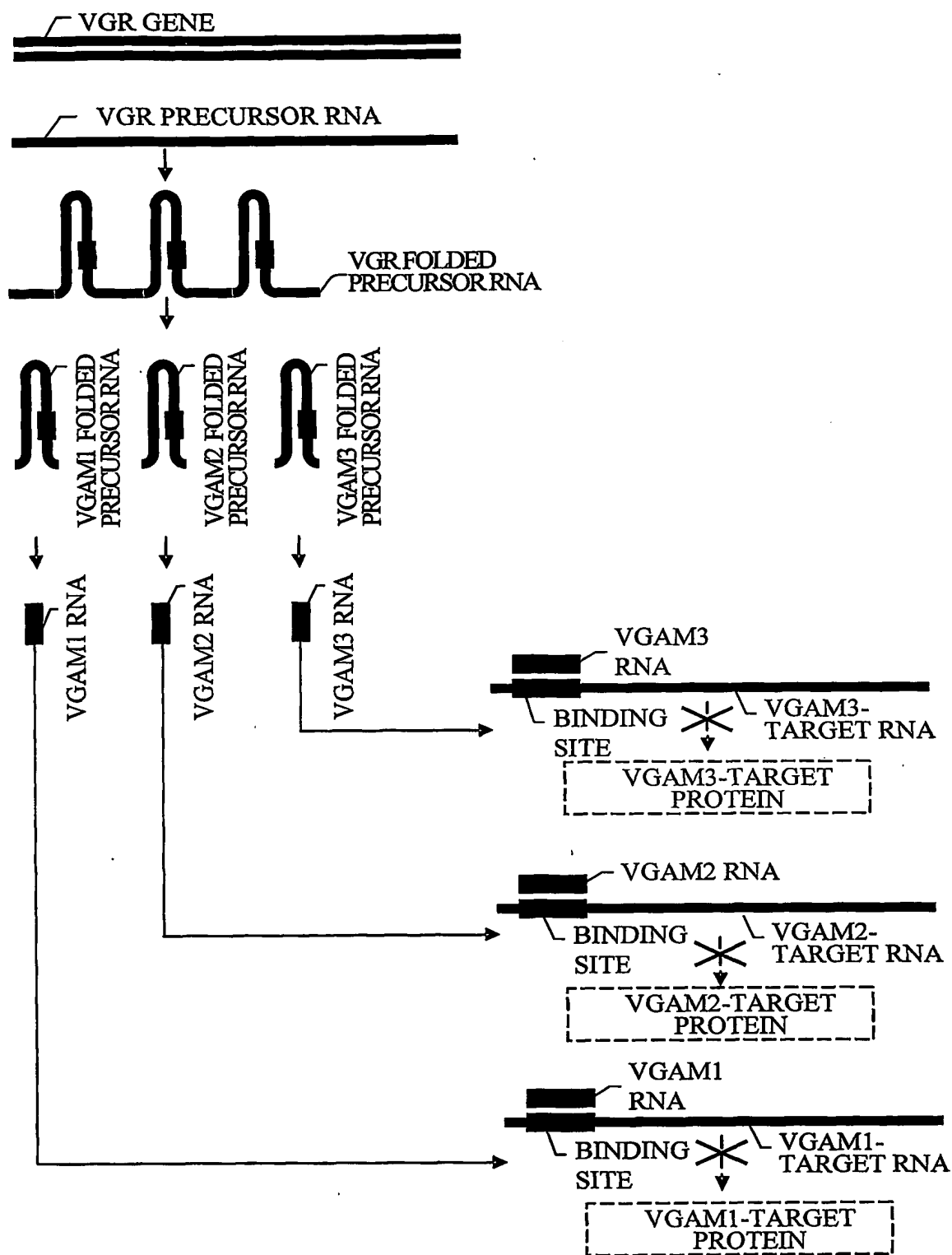


FIG. 10

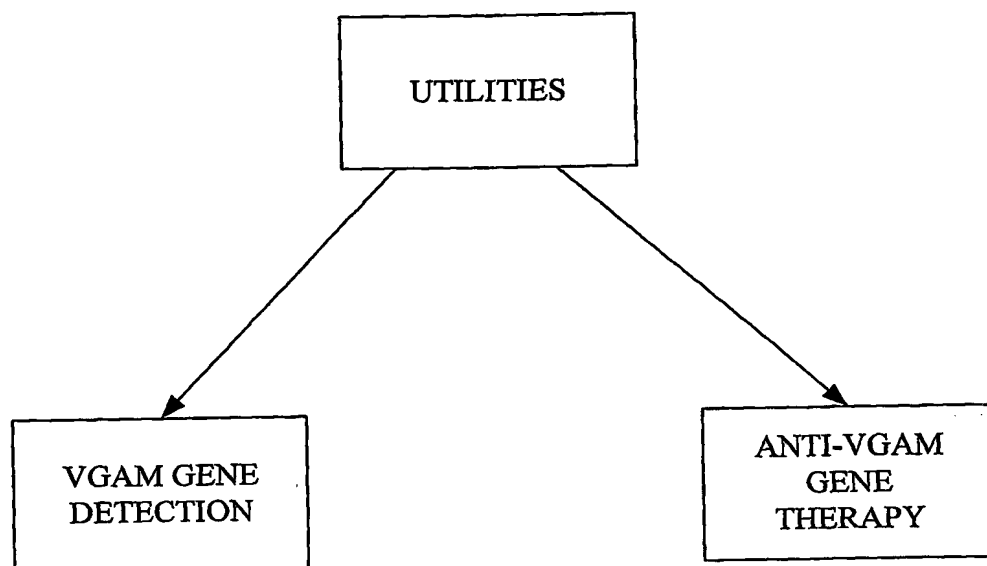


FIG. 11A

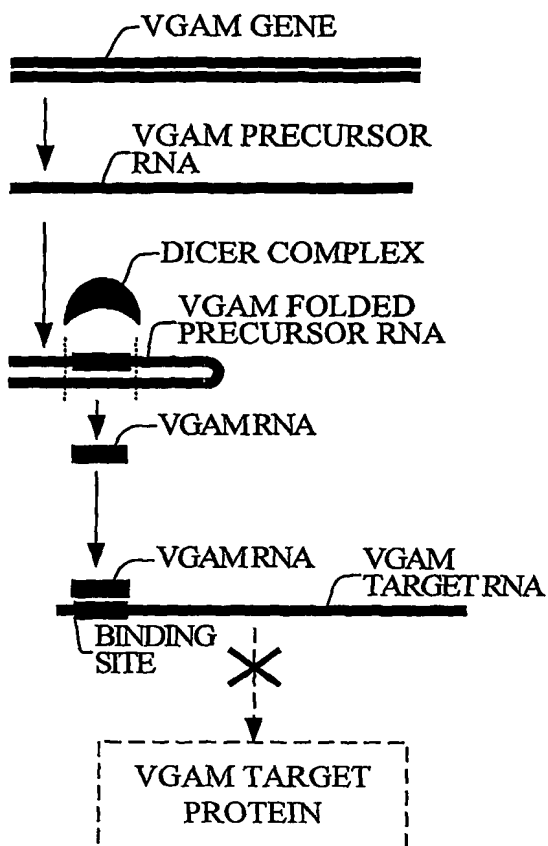


FIG. 11B

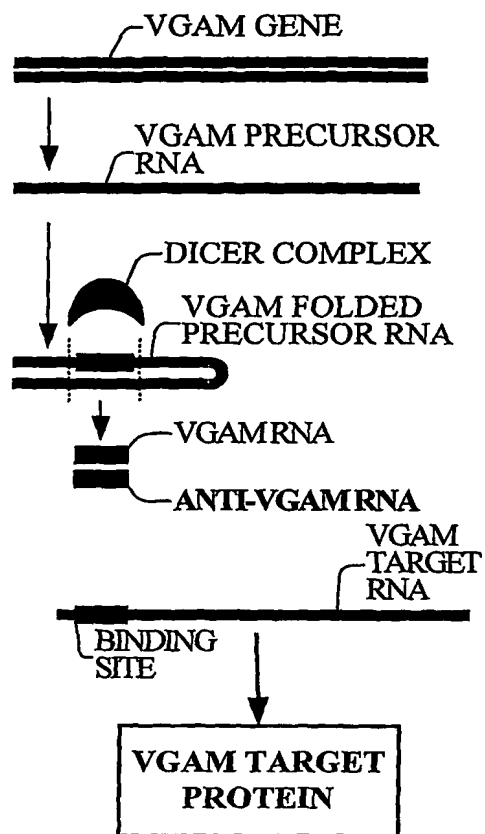


FIG. 12

Detection Accuracy Group	Number of Published MIRs	Precision on hairpin mixture	Lab Validation of Human GAMs			Novel VGAMs of Present Invention
			Sent	Positive	% success	
A	228	76%	101	37	37 %	20
B	135	41%	56	13	23 %	342
C	27	18%	7	1	14 %	212
D	20	10%	4	1	25 %	322
Overall	410	44%	168	52	31 %	896

FIG. 13

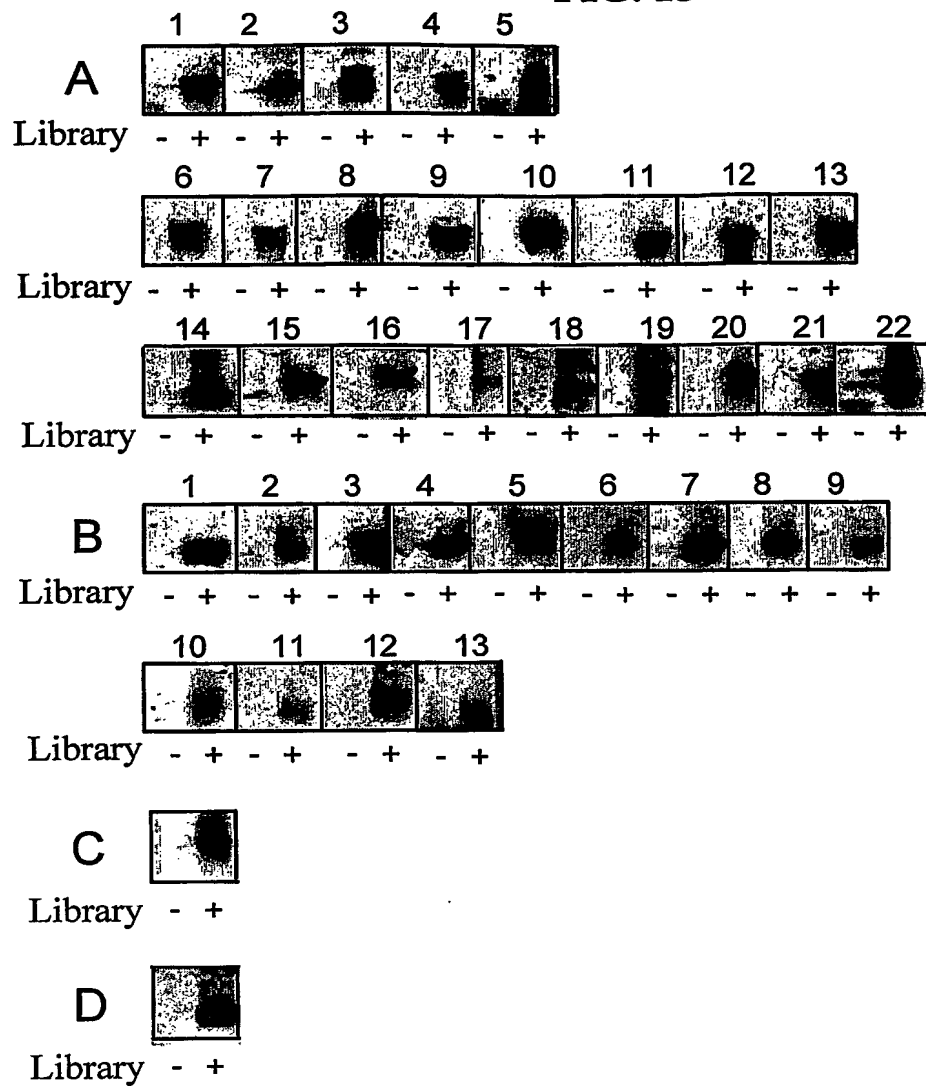


FIG. 15A

CCCTTATTAGAGGATTCTGCTCATGCCAGGGT**GAGG**TA**GTAA**GT**TGTATTG**
TGTGGGGT**AGGG**ATATT**AGGCCCAATTAGAAGATAACTATACA**ACT **MIR98**
TACTACTTTCCCTGGTGTGTGGCATATTCACACTTAGTCTTAGCAGTGTTGCC
TCCATCAGACAAAGTTGTAGATGTTCCTTGGATAATTTGGACTGGAAGAAAAAGA
GACATGGAAGGGGACAGATGGTGTTTAGGGTGAGGCAGATGTCATTATAAAGT
GACTTGCTTTTCAATTAATTGGAGCATATAATTATTTTACCTTTGGGCATGAAGTC
ATTTTGCTATTCTTCAACTGTGTAATGATTGCATTTTATTAGTAATAGAACAGGA
ATGTGTGCAAGGGAATGGAAAGCATACTTTAAGAAATTTGGGCCAGGCGCGGT
GGTTCATGCCTGTAATCCCAGCATTTTTGGGAGGGCCGAGGCGGTGGATCAC
CTGAGGTCAGGAGTTTCGAGACCAACCTGGCCAACACGGCGAAACCCCGCCTC
TACTCAAATACAAAATTAGCCAGGCTTGGTGACACTCGCCTGTGGTCCCAGC
TACTCAGGAGGCT**GAGGCAGGAGAA**T**GCTTGA**ACCC**CAGGAAGTGGAG** **GAM25**
GCTTCAGTGAGCTGAGAACACGCCCACTGCACTCCAGT**CCTGGGCAAC**
AGAGCAAGACTCTGTCTCAGGAAAAAAAAAAG

FIG. 15B

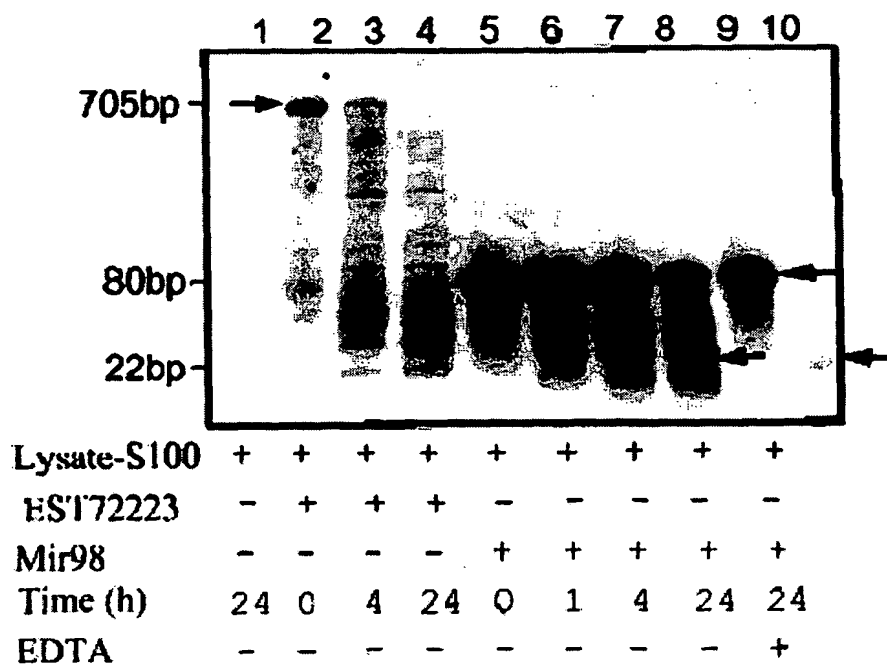


FIG. 15C

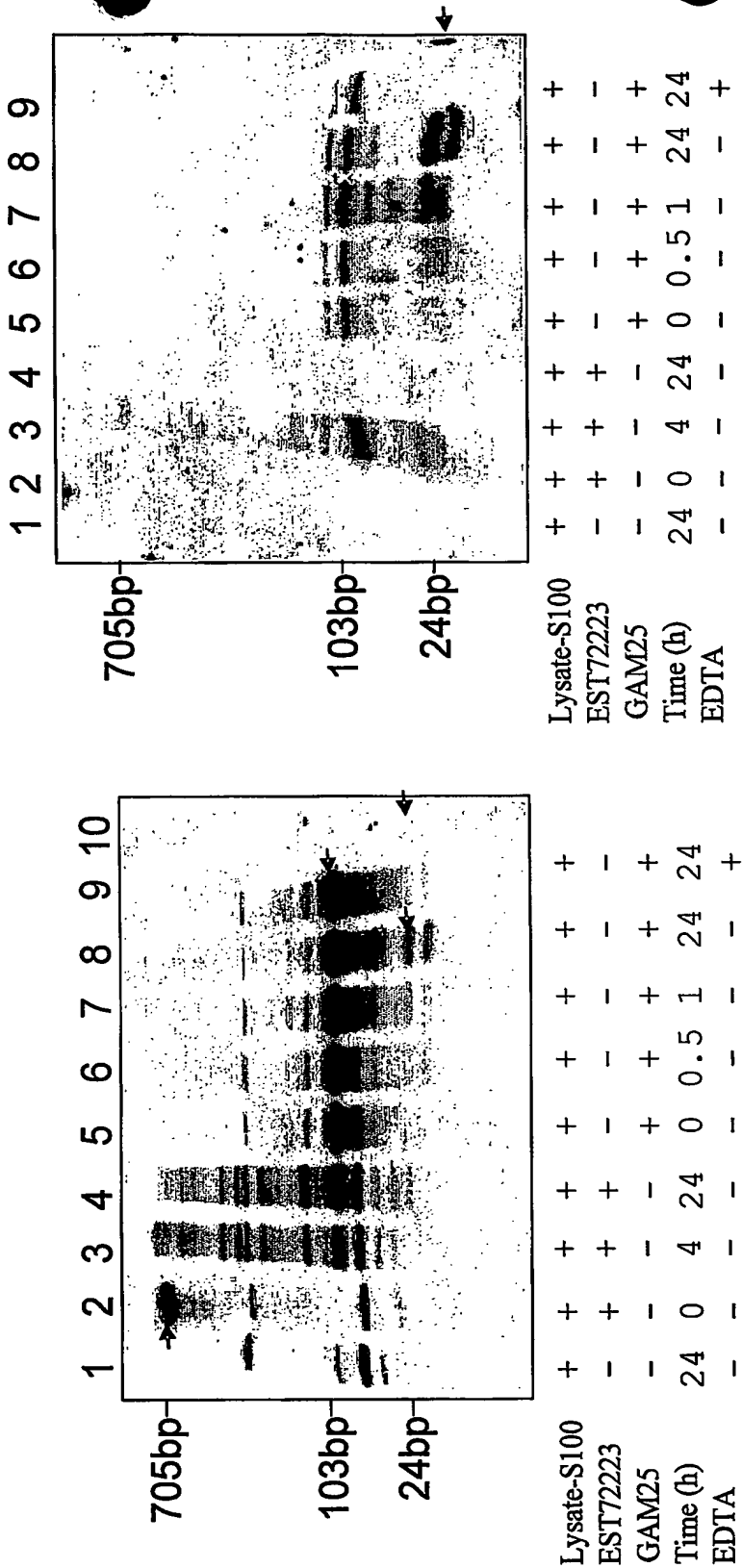


FIG. 15D

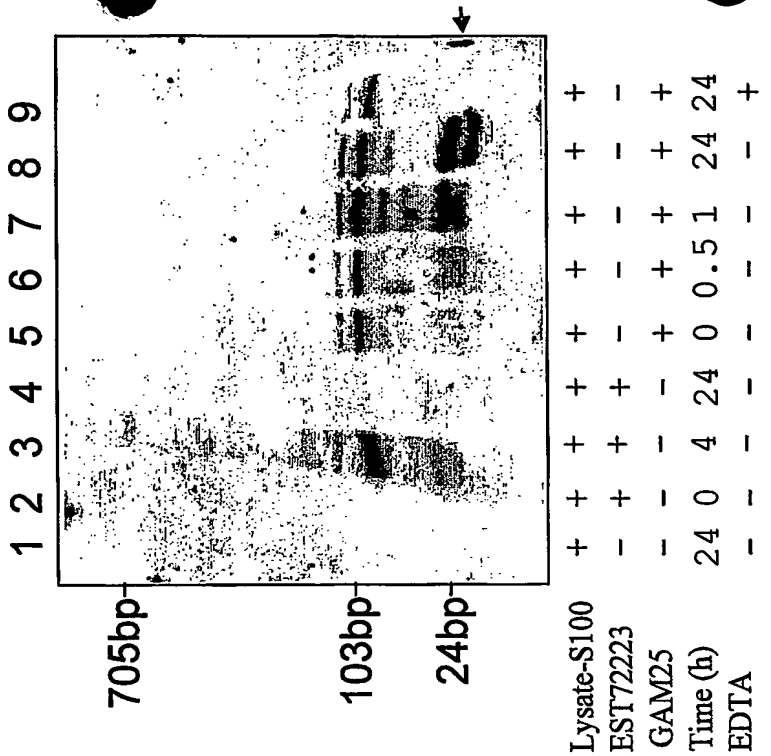


FIG. 16A

5'UTR SEQUENCE (5' TO 3') OF HIV-1(U5-R)

GGTCTCTCTGGTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACT
AGGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCTTCAAGTA
GTGTGTGCCCCGTCTGTTGTGTGACTCTGGTAACTAGAGATCCCTCAGACCCTT
TTAGTCAGTGTGGAAAATCTCTAGCAGTGGCGCCCGAACAGGGACCTGAAAG
CGAAAGGGAAACCAGAGGAGCTCTCTCGACGCAGGACTCGGCTTGCTGAA
GCGCGCACGGCAAGAGGCGAGGGGCGGCGACTGGTGAGTACGCCAAAAA
TTTTGACTAGCGGAGGCTAGAAGGAGAGAG

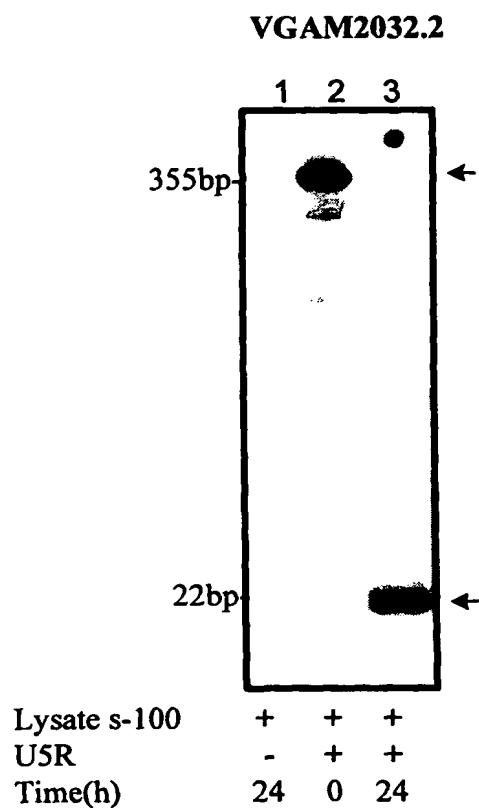
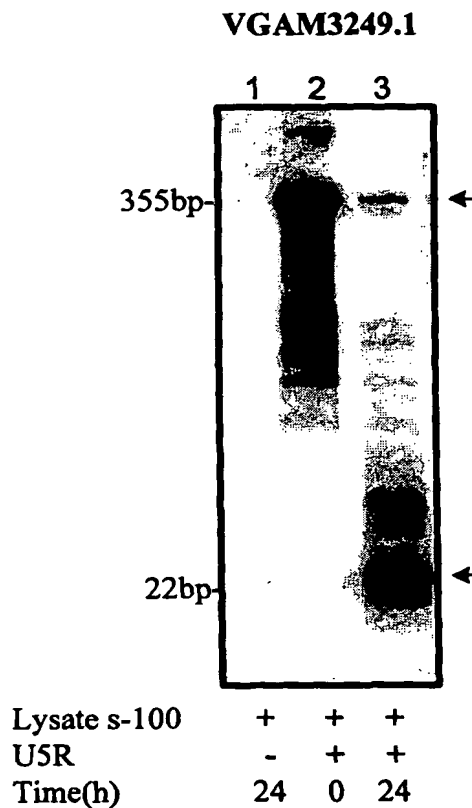
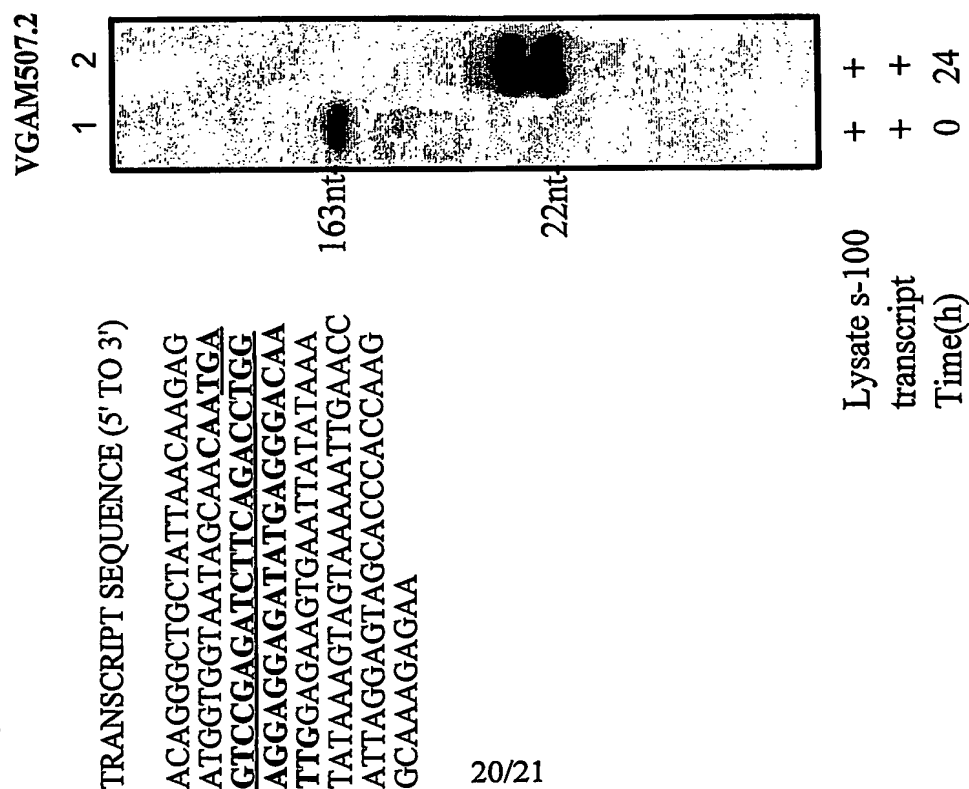
FIG. 16B**FIG. 16C**

FIG.16D



20/21

FIG.16E

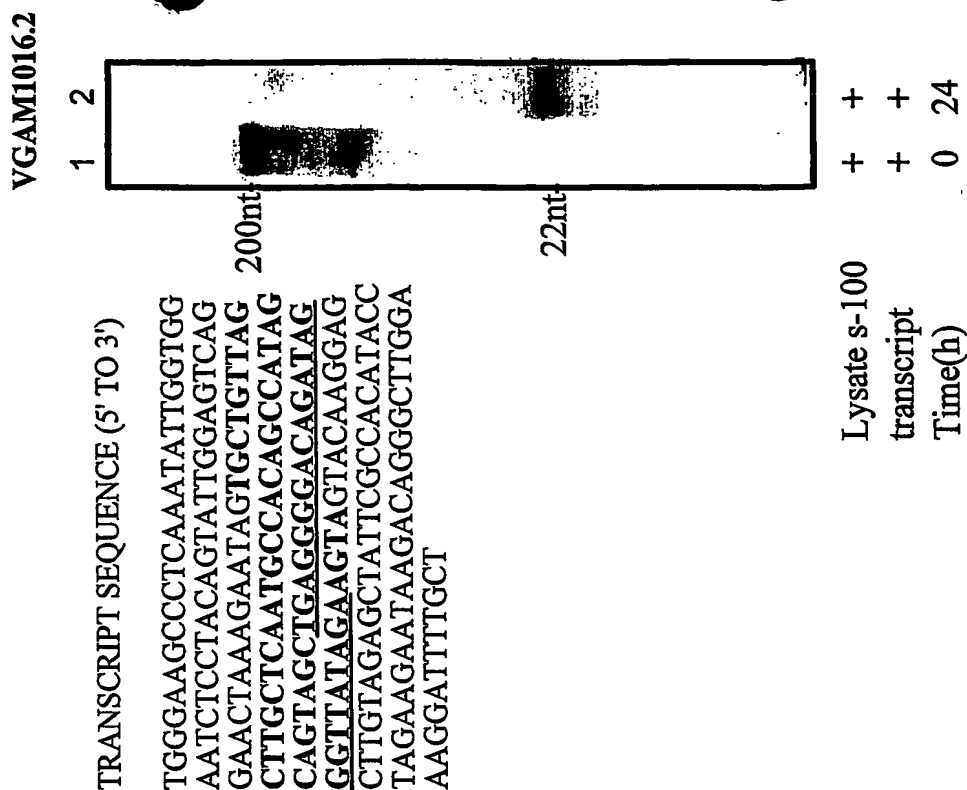


FIG.17C

VGAM224

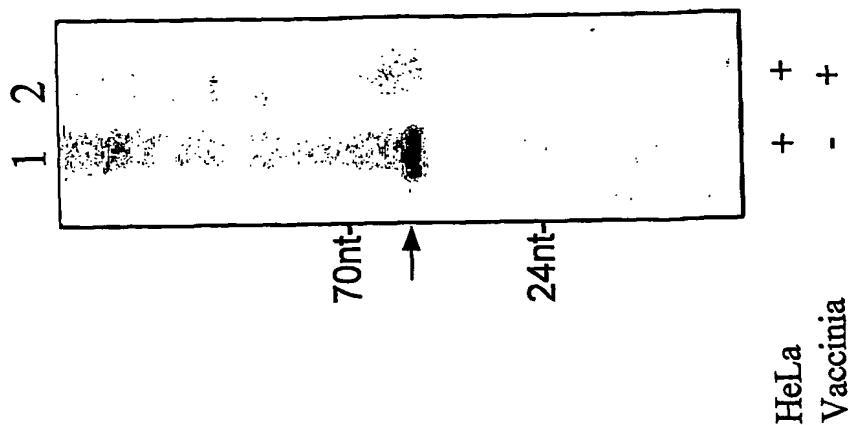


FIG.17B

VGAM3184

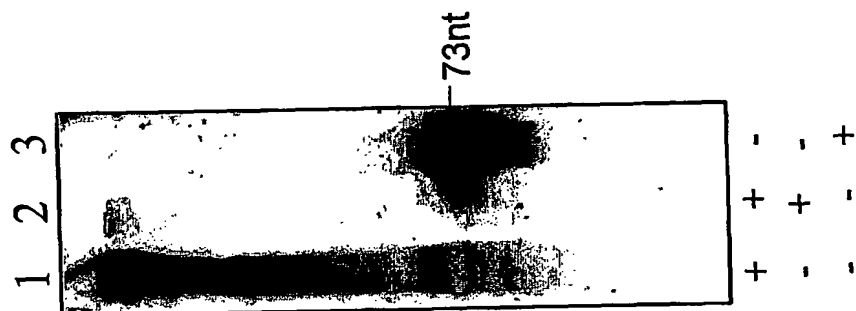


FIG.17A

VGAM224

